

Work Order ID 142118

142118

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February 26, 2016 1:22:33 PM

Item ID: D3784-041

Accept

N900040100

Setup Start *NS1*

Revision ID:

Item Name: Seat Support Assembly, Center

Stop *NS2*

Start Date: 3/4/2016 **Start Qty:** 4.00

4

Cust Item ID:

Required Date: 3/10/2016 **Req'd Qty:** 4.00

4

Customer:

Reference:

Approvals: Process Plan: SH Date: 11/5/22 Tooling:

Date: _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____

Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
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D3784 Rev B

100	Pick Kit	0.00
-----	----------	------

100

Packaging	Memo	0.00
-----------	-------------	------

Packaging

2 FF MAR 02 2016

110	0.00
-----	------

1 10

Small Fab	Memo	0.02
-----------	------	------

Small Fab 1-assemble as per dwg D3784

2 FF MAR 02 2016

120	QC5- Inspect part completeness to step on W/O	0.00
-----	---	------

120

QC	Memo	0.00
----	------	------

Quality Control

2 38
9-89
MAR 02 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Work Order ID 142118

142118

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Item ID: D3784-041 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Seat Support Assembly, Center
 Start Date: 3/4/2016 Start Qty: 4.00 ***4*** Cust Item ID:
 Required Date: 3/10/2016 Req'd Qty: 4.00 ***4*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: <u>S1253</u>	0.00							
130									
Packaging	Memo	0.00				<u>2</u>	<u>MLJ</u>	<u>16-03-02</u>	
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.01				<u>MLJ</u>		<u>MAR 03 2016</u>	
Quality Control									

MLJ MAR 02 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																																												
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">Root Cause</th> <th colspan="4" style="text-align: left;">FAULT CATEGORY</th> </tr> </thead> <tbody> <tr> <td style="width:10%;">Environment ☐</td> <td style="width:10%;">No Re-verification ☐</td> <td style="width:10%;">Pressure/Forced ☐</td> <td style="width:10%;">Temperature/Cure ☐</td> <td style="width:10%;">Power Loss/Surge ☐</td> <td style="width:10%;">Positioned Wrong ☐</td> </tr> <tr> <td>Design ☐</td> <td>Operator ☐</td> <td>Bending ☐</td> <td>Set-up ☐</td> <td>Folio/Program ☐</td> <td>Outside Dimensions ☐</td> </tr> <tr> <td>Doc/Data ☐</td> <td>Offset/Setup ☐</td> <td>Centre Not Concentric ☐</td> <td>BOM/Route ☐</td> <td>Grain ☐</td> <td>Over/Under tolerance ☐</td> </tr> <tr> <td>Equip/Tooling ☐</td> <td>Supplier ☐</td> <td>Cracks ☐</td> <td>Broken/Damage/Defect ☐</td> <td>Weld ☐</td> <td>Part Incorrect ☐</td> </tr> <tr> <td>Handling/Pre ☐</td> <td>Training ☐</td> <td>Crimp/Kink/Ripple/Wave ☐</td> <td>Inspection Incomplete/Unqualified ☐</td> <td>Wrong Stock Pulled ☐</td> <td>Part Lost/Missing ☐</td> </tr> <tr> <td>Material ☐</td> <td>Use for Testing ☐</td> <td>Cuffs ☐</td> <td>Contamination ☐</td> <td>Out of Sequence ☐</td> <td>Part Moved ☐</td> </tr> <tr> <td>Internal Transport ☐</td> <td>Poor Information ☐</td> <td>Crushing ☐</td> <td>Countersink ☐</td> <td>Off-set ☐</td> <td>Drawing ☐</td> </tr> <tr> <td>Tribal Knowledge ☐</td> <td>Rushing ☐</td> <td>Heat Treat ☐</td> <td>Cut Too Short ☐</td> <td>Mislabeled ☐</td> <td>Finish ☐</td> </tr> <tr> <td>LOA ☐</td> <td>Product Improvement ☐</td> <td>Wave/Twist in Tube ☐</td> <td>Instructions Incomplete/Unclear ☐</td> <td>Fit/Function ☐</td> <td>Misread ☐</td> </tr> <tr> <td>Substation ☐</td> <td>Process Improvement ☐</td> <td>Marks/Chatter ☐</td> <td>Drill Holes ☐</td> <td>Misaligned/off center ☐</td> <td>Turning Sequence ☐</td> </tr> <tr> <td>Past Expiry Date ☐</td> <td>Manufacturing Process ☐</td> <td colspan="4" rowspan="2" style="text-align: center; vertical-align: top;">OTHER : ☐</td> </tr> <tr> <td>Misidentified ☐</td> <td>Past Due ☐</td> </tr> </tbody> </table>					Root Cause		FAULT CATEGORY				Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐				Misidentified ☐	Past Due ☐
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Picklist Print

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Work Order ID: 142118

142118

Parent Item: D3784-041

D3784-041

Parent Item Name: Seat Support Assembly, Center

Start Date: 3/4/2016

Required Date: 3/10/2016

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP Rev:A 08-05-19 new issue DD verified by:ec
IPP Rev:B 08-07-18 revB as per dwg DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN525-10R20		Purchased	No			110	Each	84.0000	2	8			
AN525-10R20									**		FF	MAR 02 2016	
Screw													

Location Loc Qty Loc Code

GA 84

m131305 84

D3763-041

Manufactured No

110 Each 7.0000 1

D3763-041

End Fitting Assembly

FF MAR 02 2016

Location Loc Qty Loc Code

ST251 7

127628 1

129983 6

D3763-045

Manufactured No

110 Each 12.0000 1

D3763-045

End Fitting Assembly

FF MAR 02 2016

Location Loc Qty Loc Code

ST251 12

122306 10

123434 2

D3770-1

Manufactured No

110 Each 4.0000 1

D3770-1

Tube

FF MAR 02 2016

Location Loc Qty Loc Code

ST254 4

130059 4

2

Picklist Print

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Page 2

Work Order ID: 142118

Parent Item: D3784-041

Parent Item Name: Seat Support Assembly, Center

142118

D3784-041

Start Date: 3/4/2016

Required Date: 3/10/2016

Start Qty: 4.00

Required Qty: 4.00

MS21042L3

Purchased

No

110

Each

1,688.000

2

8

MS21042L3

Nut

FF

MAR 02 2016

Location

Loc Qty

Loc Code

FP001

163

m133790

163

GA

130

m133790

130

ST304

1395

m134039

1395

4

NAS1149D0332J

Purchased

No

110

Each

1,248.000

2

8

NAS1149D0332J

Washer

FF

MAR 02 2016

Location

Loc Qty

Loc Code

CA

14

m129682

14

FP001

44

m129682

44

GA

131

m132677

131

ST260a

600

m133988

600

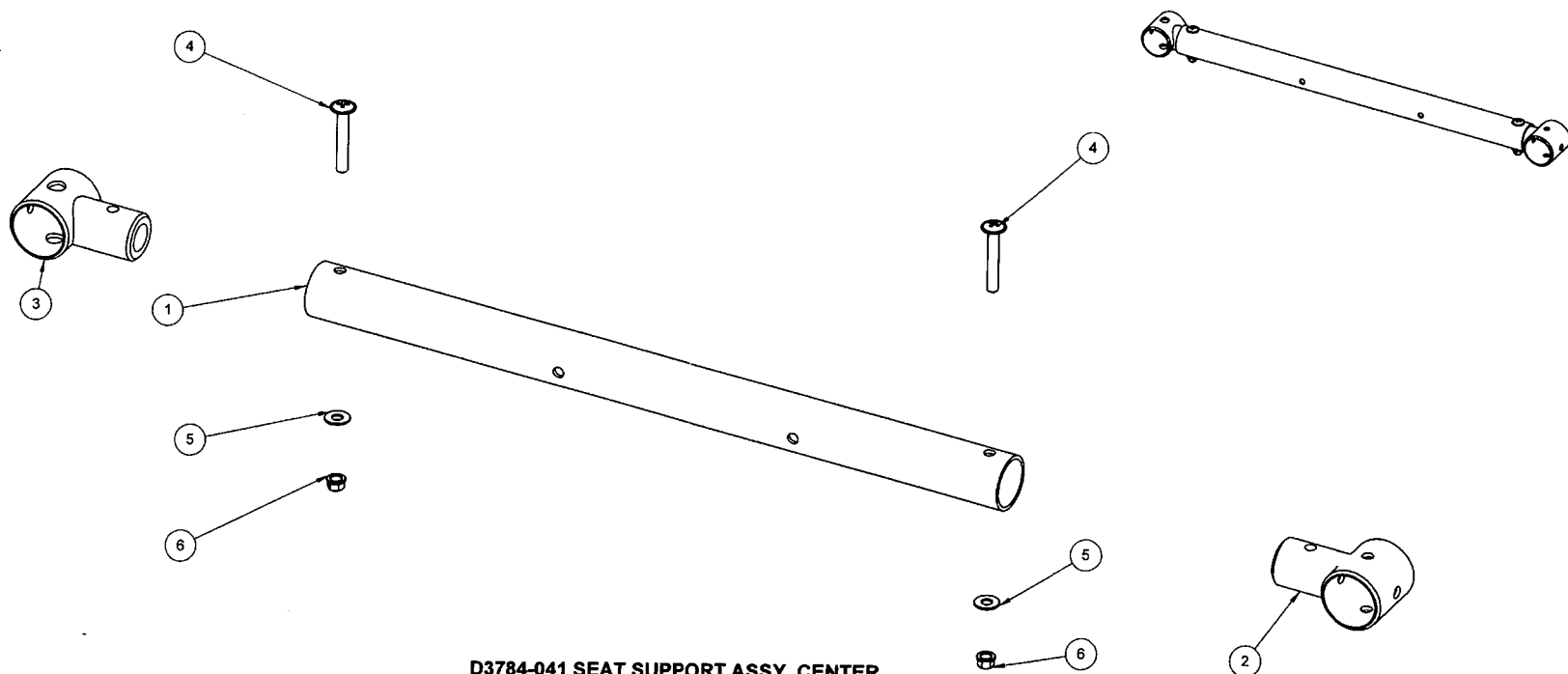
ST264

459

m133498

459

4



D3784-041 SEAT SUPPORT ASSY, CENTER

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. (-041)
1	D3770-1	TUBE	1
2	D3763-041	END FITTING ASSY	1
3	D3763-045	END FITTING ASSY	1
4	AN525-10R20	SCREW	2
5	NAS1149D0332J	WASHER (AN960JD10L)	2
6	MS21042L3	NUT	2

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.31 lbs

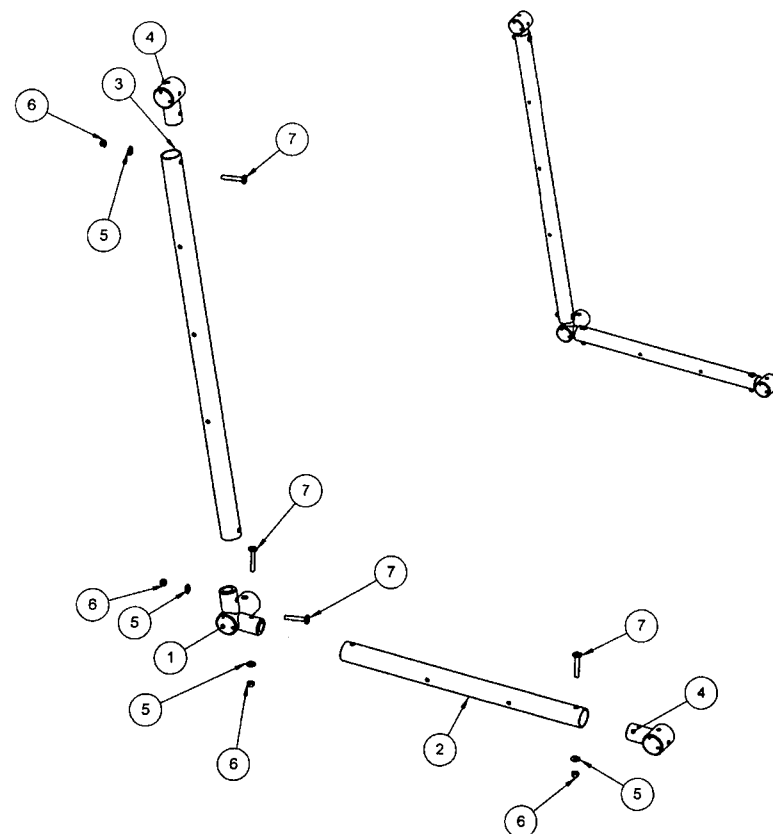
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A	NEW ISSUE	HS	08.06.04
REV.	DESCRIPTION	BY	DATE
DESIGN	HS	DART AEROSPACE LTD	
DRAWN	HS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	HS	DRAWING NO.	REV. B
MFG. APPR.	HS	D3784	SHEET 1 OF 5
APPROVED	HS	TITLE	SCALE
DE APPR.	HS	SEAT SUPPORT ASSEMBLY	NTS
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY. (-043)
1	D3763-043	END FITTING ASSY, LH	1
2	D3770-1	TUBE	1
3	D3770-3	TUBE	1
4	D3763-041	END FITTING ASSY	2
5	NAS1149D0332J	WASHER (AN960JD10L)	4
6	MS21042L3	NUT	4
7	AN525-10R20	SCREW	4

△
B
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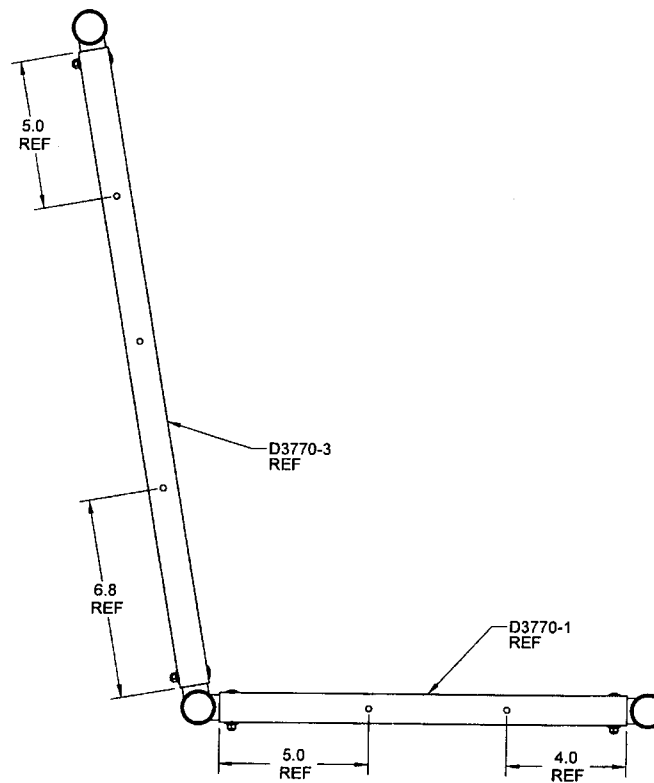
D3784-043 SEAT SUPPORT ASSY, LH

NOTES:
 1) MATERIAL: N/A
 2) FINISH: N/A
 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 6) IDENTIFICATION: N/A
 7) WEIGHT: 0.78 lbs



RELEASED
 08-07-10 1/10

DESIGN	HS	DART AEROSPACE LTD	
DRAWN	HS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	PA	DRAWING NO.	REV. B
MFG. APPR.		D3784	SHEET 2 OF 5
APPROVED		TITLE	SCALE
DE APPR.		SEAT SUPPORT ASSEMBLY	NTS
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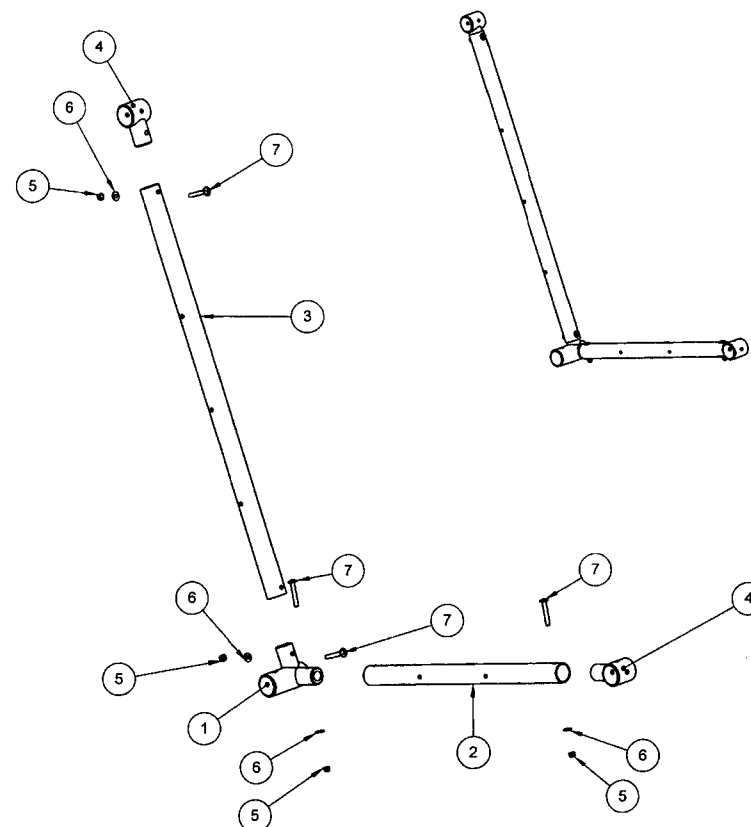


D3784-043 SEAT SUPPORT ASSY, LH

RELEASED
08-07-10 1/17

DESIGN	HS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
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DATE	08.06.23		

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. (-044)
1	D3763-044	END FITTING ASSY, RH	1
2	D3770-1	TUBE	1
3	D3770-3	TUBE	1
4	D3763-041	END FITTING ASSY	2
5	MS21042L3	NUT	4
6	NAS1149D0332J	WASHER (AN960JD10L)	4
7	AN525-10R20	SCREW	4

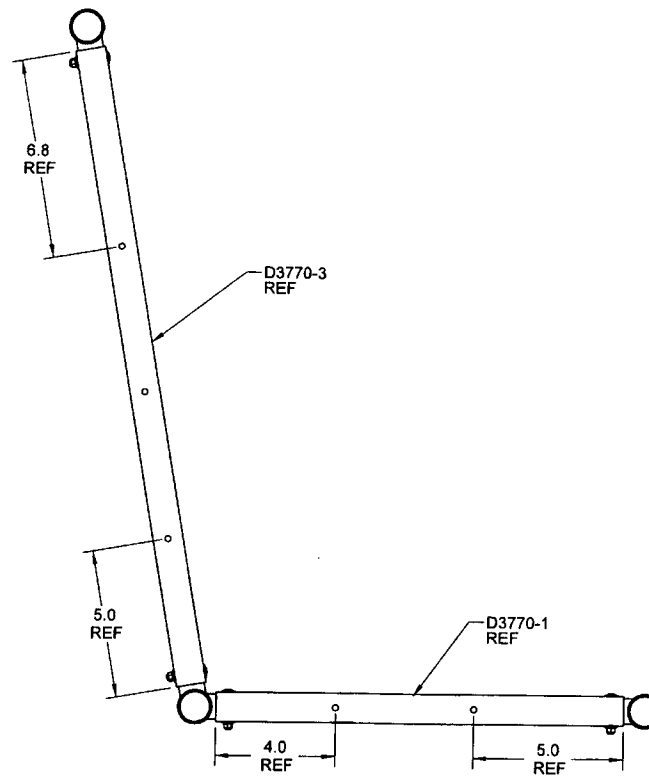


D3784-044 SEAT SUPPORT ASSY, RH

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.78 lbs

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APPROVED	HS	TITLE	SCALE
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D3784-044 SEAT SUPPORT ASSY, RH

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CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3784	SHEET 5 OF 5
APPROVED		TITLE	SCALE
DE APPR.		SEAT SUPPORT ASSEMBLY	NTS
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